

Design Lessons Learned: Constructability Design details must be reviewed for constructability Consider utilities that may inhibit placement Design to accommodate limited space around existing structure

Design Lessons Learned: Constructability

- Review current topography for the ability to move equipment
- Design panels as similar as possible for ease of casting





Design Lessons Learned:

Phasing

- · Establish a rapid fill method
- Sequence/schedule ABC activities appropriately for the most optimal usage of time
- Consider staging areas during the Right-of-Way acquisition process
- Must keep MOT as a major consideration
- Design for any required temporary work







Design Lessons Learned:

Placement

- Must have proper pick point design
 - Account for parapet
 - Determine if counterweights will be required
- Establish a design to minimize closure pours
- Ensure deck steel will handle moving stresses
- Clearly detail all connections





Construction Lessons Learned: Initial Planning Communicate all requirements early on Activities should be sequenced/scheduled appropriately to optimize time and accelerate construction

Construction Lessons Learned: Initial Planning

- Contractor should be familiar with new technologies or materials being used
- Adequate upfront time needs to be accounted for
 - Shop drawing approval
 - Casting
 - Full curing of all precast elements



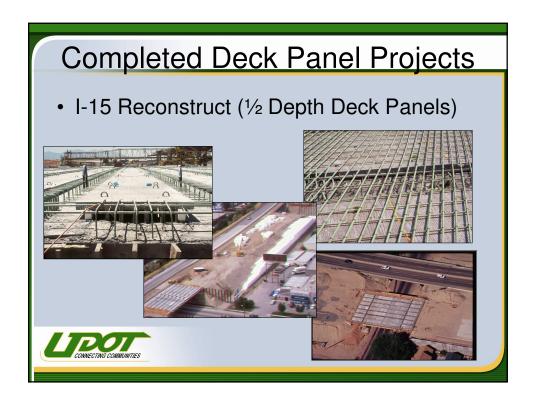


Construction Lessons Learned

- Contractor should survey the site prior to beginning construction
- Know conditions of the existing deck for appropriate removal plan
- Plan for space for all required equipment

















Completed Deck Panel Projects • I-84 Weber Canyon (3 Bridges)

Deck Panel Projects Under Construction I-15 Kaysville Interchange (Widening) - ½ Depth Deck Panels I-80 Kimball Junction (Widening) US-6 MP 200 (2 Bridges) I-15 Bluff Street Interchange (Widening) Riverdale Road over I-84 (Widening)

